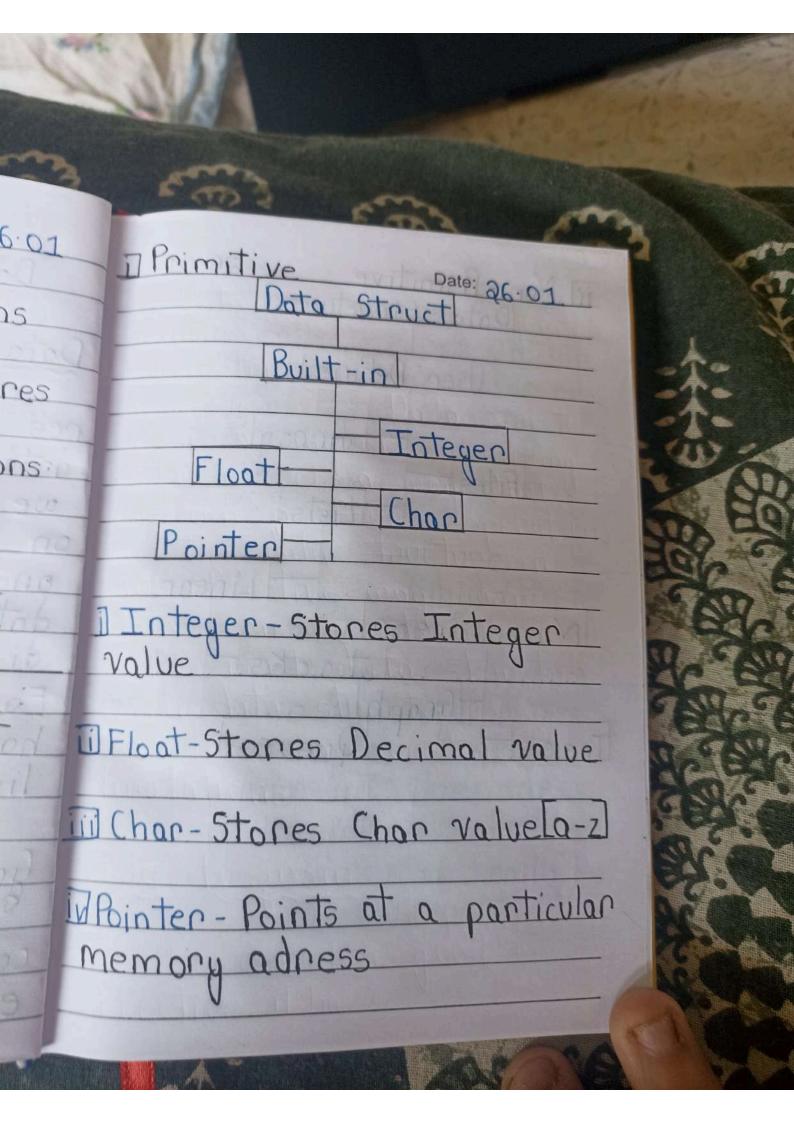
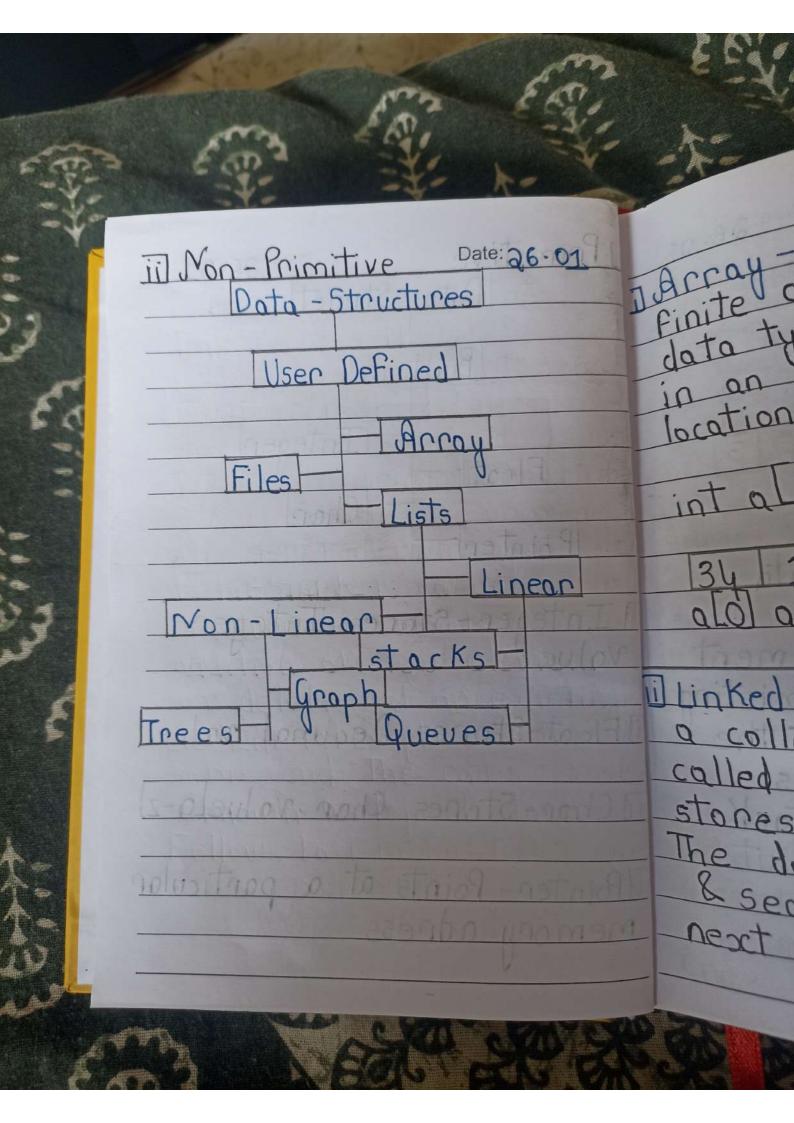
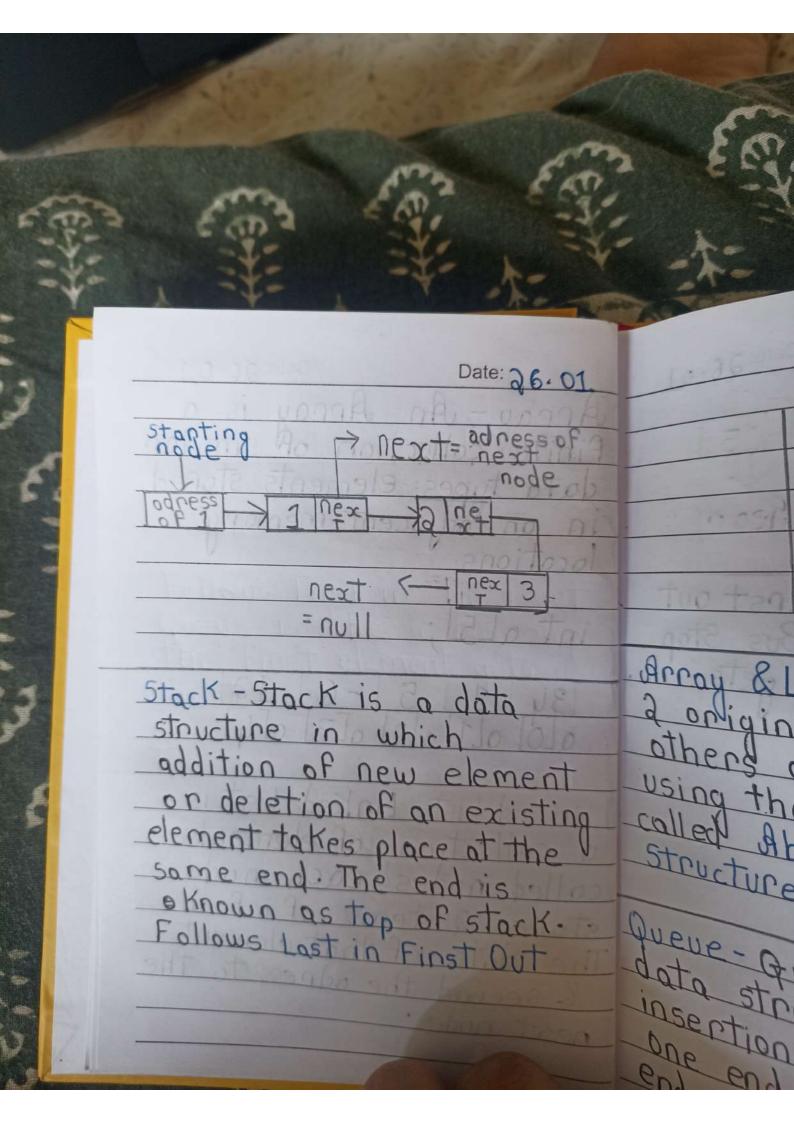
Data Structures & Algorithm Data Structures: Data Structu res is a way of organizing data in such a way that we can perform operations on the data structures in an effective way same data can be stored in different data structures. Each data structures has its own benefits & limitations. Good Program: A program
can be called a good or
effective it has:

Date: 26.01 il Less no of instructions ill Time/Memory Effect in good program requires
analysis of problem to determine basic operations ivi Quantify resource constraints I Select appropriate data structure Types of Data - Structure There are two types of Data - Structure il Primitive mono iil Non-Primitive

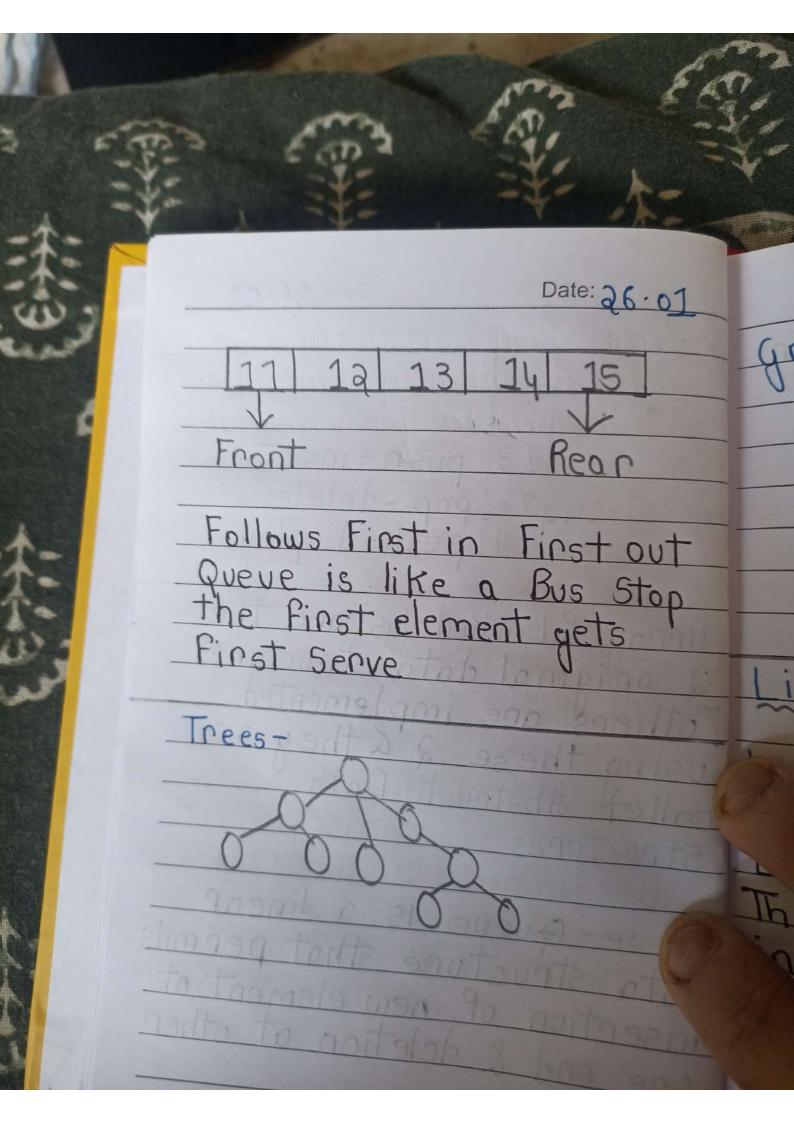




Date: 26.01 Annay - An Array is a finite collection of similar data types elements stored in an adjacent memory locations. int a[5]; 20 Ulinked List- Linked List is a collection of elements called nodes, each node stores à items of infoil The data of that element & second the adress to the next node.



Date: 26.01 13 push-insent 12 pop-delete 11 peak-display Array & Linked List are the à original data structures others are implemented using these 2 & they are called Abstruct Data Structures. data structure that permits insertion of new element at one end & deletion at other end.



Date: grap Linear & Mon - Linear Data I Includes Arrays, Linked Lists, queves, stacks.

They can be representated in memory in a ways:

Il First is to have linear relationship between elements by means of sequencial memory allocation.